

SEQ 1 NQYVXLFPFF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 9 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 120618-88-4 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location			description
uncommon	Orn-5	-	-	
modification	Orn-5	-		undetermined modification

SEQ 1 NQYVXLFPWF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 10 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 120602-98-4 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location			description
uncommon	Orn-5	-	-	
modification	Tyr-3	-		iodo<2; I>

SEQ 1 NQYVXLFPWF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 11 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 42002-32-4 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location			description
uncommon	Orn-5	-	-	
modification	Tyr-3	-		phenylmethyl<Bzl>
modification	Orn-5	-		(phenylmethoxy) carbonyl<Z>

SEQ 1 NQYVXLFPFF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 12 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 28382-58-3 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location			description
------	----------	--	--	-------------

uncommon	Orn-5	-	-
modification	-	-	undetermined modification

SEQ 1 NQFVXLFPFF

HITS AT: 1-3, 4-10

L7 ANSWER 13 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 28343-15-9 REGISTRY
 DR 27562-00-1
 FS PROTEIN SEQUENCE
 SQL 10
 NTE **cyclic**
 modified

type	location		description
uncommon	Orn-5	-	-
modification	-	-	undetermined modification

SEQ 1 NQYVXLFPWW

HITS AT: 1-3, 4-10

L7 ANSWER 14 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 28343-14-8 REGISTRY
 FS PROTEIN SEQUENCE
 SQL 10
 NTE **cyclic**
 modified

type	location		description
uncommon	Orn-5	-	-
modification	Orn-5	-	(phenylmethoxy) carbonyl<Z>

SEQ 1 NQYVXLFPWW

HITS AT: 1-3, 4-10

L7 ANSWER 15 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 28334-51-2 REGISTRY
 FS PROTEIN SEQUENCE
 SQL 10
 NTE **cyclic**
 modified

type	location		description
uncommon	Orn-5	-	-
modification	Orn-5	-	(phenylmethoxy) carbonyl<Z>

SEQ 1 NQFVXLFPFF

HITS AT: 1-3, 4-10

L7 ANSWER 16 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 27805-48-7 REGISTRY
 FS PROTEIN SEQUENCE
 SQL 10

NTE **cyclic**
modified

type	location		description
uncommon modification	Orn-5 -	- -	- undetermined modification

SEQ 1 NQYVXLFPWF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 17 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 27783-64-8 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location		description
uncommon modification	Orn-5 Orn-5	- -	- (phenylmethoxy) carbonyl<Z>

SEQ 1 NQYVXLFPWF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 18 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 23619-01-4 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	location		description
uncommon	Orn-5	-	-

SEQ 1 NQYVXLFPYY
=====

HITS AT: 1-3, 4-10

L7 ANSWER 19 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 23512-44-9 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	location		description
uncommon	Orn-5	-	-

SEQ 1 NQYVXLFPYF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 20 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 19716-16-6 REGISTRY
DR 11005-77-9
FS PROTEIN SEQUENCE
SQL 10

NTE **cyclic**

type	location	description
uncommon	Orn-5	-

SEQ 1 NQWVXLFPWW
=====

HITS AT: 1-3, 4-10

L7 ANSWER 21 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 19659-43-9 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	location	description
uncommon	Orn-5	-

SEQ 1 NQYVXIFPFF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 22 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 19659-41-7 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	location	description
uncommon	Orn-5	-

SEQ 1 NQFVXLFPFF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 23 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 6676-11-5 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location	description
uncommon	Orn-5	-
modification	Orn-5	(phenylmethoxy) carbonyl<Z>

SEQ 1 NQYVXLFPFF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 24 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 6060-42-0 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	-----	location	-----	description
uncommon		Orn-5	-	-
modification		-	-	undetermined modification

SEQ 1 NQYVXLFPFF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 25 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 3991-13-7 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	-----	location	-----	description
uncommon		Orn-5	-	-

SEQ 1 NQYVXLWPWW
=====

HITS AT: 1-3, 4-10

L7 ANSWER 26 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 3252-29-7 REGISTRY
DR 11018-02-3
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	-----	location	-----	description
uncommon		Orn-5	-	-

SEQ 1 NQYVXLFPWW
=====

HITS AT: 1-3, 4-10

L7 ANSWER 27 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 1481-70-5 REGISTRY
DR 11005-75-7
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	-----	location	-----	description
uncommon		Orn-5	-	-

SEQ 1 NQYVXLFPFF
=====

HITS AT: 1-3, 4-10

L7 ANSWER 28 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 1111-57-5 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	-----	location	-----	description
------	-------	----------	-------	-------------

uncommon Orn-5 - -

SEQ 1 NQYVXLWPWF
 =====

HITS AT: 1-3, 4-10

L7 ANSWER 29 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 865-28-1 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type ----- location ----- description

uncommon Orn-5 - -

SEQ 1 NQYVXLFPWF
 =====

HITS AT: 1-3, 4-10

SEQ 1 NDWVXLYPFF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 5 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 182351-66-2 REGISTRY
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10
NTE **cyclic**
modified (modifications unspecified)

type	location			description
uncommon	Orn-5	-	-	
stereo	Tyr-7	-	D	

SEQ 1 NDWVXLYPFF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 6 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 147344-92-1 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	location			description
uncommon	Orn-5	-	-	

SEQ 1 NQWVXLFPFF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 7 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 147316-75-4 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**

type	location			description
uncommon	Orn-5	-	-	

SEQ 1 NQWVXLFPWF

=====

HITS AT: 1-3, 4-10

L7 ANSWER 8 OF 29 REGISTRY COPYRIGHT 1998 ACS
RN 136207-54-0 REGISTRY
FS PROTEIN SEQUENCE
SQL 10
NTE **cyclic**
modified

type	location			description
uncommon	Orn-5	-	-	
modification	Tyr-3	-		undetermined modification
modification	Orn-5	-		(phenylmethoxy) carbonyl<Z>

L7 ANSWER 1 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 202752-14-5 REGISTRY
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 10
 NTE **cyclic**
 modified

type	location		description
uncommon	Orn-5	-	-
modification	Asp-2	-	methyl<Me>
modification	Orn-5	-	acetyl<Ac>

SEQ 1 NDWVXLYPFF

HITS AT: 1-3, 4-10

L7 ANSWER 2 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 202752-13-4 REGISTRY
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 10
 NTE **cyclic**

type	location		description
uncommon	Orn-5	-	-

SEQ 1 NDWVXLYPWF

HITS AT: 1-3, 4-10

L7 ANSWER 3 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 202752-12-3 REGISTRY
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 10
 NTE **cyclic**

type	location		description
uncommon	Orn-5	-	-

SEQ 1 NDYVXLYPFF

HITS AT: 1-3, 4-10

L7 ANSWER 4 OF 29 REGISTRY COPYRIGHT 1998 ACS
 RN 182422-45-3 REGISTRY
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 10
 NTE **cyclic**

type	location		description
uncommon	Orn-5	-	-

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS
 AN 1993:209087 CAPLUS
 DN 118:209087
 TI Characterization of the tyrocidine and gramicidin fractions of the
 thyrothricin complex from Bacillus brevis using liquid chromatography
 and mass spectrometry
 AU Tang, Xue Jun; Thibault, Pierre; Boyd, Robert K.
 CS Inst. Mar. Biosci., Natl. Res. Counc., Halifax, NS, B3H 3Z1, Can.
 SO Int. J. Mass Spectrom. Ion Processes (1992), 122, 153-79
 CODEN: IJMPDN; ISSN: 0168-1176
 DT Journal
 LA English

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1998 ACS
 AN 1993:209086 CAPLUS
 DN 118:209086
 TI An investigation of the thyrothricin complex by tandem mass
 spectrometry
 AU Barber, M.; Bell, D. J.; Morris, M. R.; Tetler, L. W.; Monaghan, J.
 J.; Morden, W. E.; Bycroft, B. W.; Green, B. N.
 CS Dep. Chem., UMIST, Manchester, M60 1QD, UK
 SO Int. J. Mass Spectrom. Ion Processes (1992), 122, 143-51
 CODEN: IJMPDN; ISSN: 0168-1176
 DT Journal
 LA English

=> d all 1-

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS
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 DN 118:209087
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 CODEN: IJMPDN; ISSN: 0168-1176
 DT Journal
 LA English
 CC 10-1 (Microbial, Algal, and Fungal Biochemistry)
 Section cross-reference(s): 9, 26
 AB The thyrothricin peptide complex, isolated from the fermn. broth of
 Bacillus brevis, is comprised of a basic fraction of cyclic
 decapeptides (the tyrocidines) and a neutral fraction composed of
 linear peptides (the gramicidins). Previously, 5 cyclic compds.
 (tyrocidines A-E) had been characterized by classical chem.
 procedures, and an addnl. 5 by M. Barber et al. (1992), who employed
 tandem mass spectrometric anal. of the crude mixt., together with an
 interpretative strategy based upon mass shifts related to simple
 amino acid substitutions. In the present work, initial profiling of
 the thyrothricin complex, using reverse phase liq. chromatog. (HPLC)
 coupled directly to tandem mass spectrometry via an ionspray
 interface, showed that the mixt. is extremely complex.
 Semi-preparative HPLC provided 32 fractions, some of which were
 still mixts., amenable to anal. by tandem mass spectrometry using

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS
 AN 1993:209087 CAPLUS
 DN 118:209087
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 CODEN: IJMPDN; ISSN: 0168-1176
 DT Journal
 LA English
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 Semi-preparative HPLC provided 32 fractions, some of which were
 still mixts., amenable to anal. by tandem mass spectrometry using
 the doubly-protonated peptide precursors produced by ionspray
 ionization. In this way the 10 previously known tyrocidines were
 confirmed, and structures of an addnl. 18 cyclic variants
 established with only minor uncertainties (e.g. present techniques
 could not distinguish Ile from Leu). Six linear gramicidins were
 known previously, and were confirmed in the present work. In addn.,
 3 previously unknown variants, of the Vall-gramicidins A, B and C,
 were discovered, in which the ethanolamide residue at the C-terminus
 is replaced by a propanolamide residue.
 ST *Bacillus* tyrocidine gramicidin fraction HPLC spectrometry;
 tyrothricin complex mass spectrometry liq chromatog
 IT *Bacillus brevis*
 (gramicidin and thyrocidine from, isolation and structure of)
 IT 865-28-1 1404-88-2, Tyrothricin 1405-97-6, Gramicidin
 1481-70-5 3252-29-7 4419-81-2 4422-52-0 5536-03-8
 6377-07-7 8011-61-8, Tyrocidine 19659-41-7 19659-42-8
 19716-16-6 58442-65-2 64765-31-7 147316-73-2 147316-74-3
 147316-75-4 **147344-92-1**
 RL: BIOL (Biological study)
 (from *Bacillus brevis*, isolation and structure of)

the doubly-protonated peptide precursors produced by ionspray ionization. In this way the 10 previously known tyrocidines were confirmed, and structures of an addnl. 18 cyclic variants established with only minor uncertainties (e.g. present techniques could not distinguish Ile from Leu). Six linear gramicidins were known previously, and were confirmed in the present work. In addn., 3 previously unknown variants, of the Vall-gramicidins A, B and C, were discovered, in which the ethanolamide residue at the C-terminus is replaced by a propanolamide residue.

ST Bacillus tyrocidine gramicidin fraction HPLC spectrometry;
tyrothricin complex mass spectrometry liq chromatog

IT Bacillus brevis

(gramicidin and thyrocidine from, isolation and structure of)

IT 865-28-1 1404-88-2, Tyrothricin 1405-97-6, Gramicidin
1481-70-5 3252-29-7 4419-81-2 4422-52-0 5536-03-8
6377-07-7 8011-61-8, Tyrocidine 19659-41-7 19659-42-8
19716-16-6 58442-65-2 64765-31-7 147316-73-2 147316-74-3
147316-75-4 **147344-92-1**

RL: BIOL (Biological study)

(from Bacillus brevis, isolation and structure of)

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1998 ACS

AN 1993:209086 CAPLUS

DN 118:209086

TI An investigation of the tyrothricin complex by tandem mass spectrometry

AU Barber, M.; Bell, D. J.; Morris, M. R.; Tetler, L. W.; Monaghan, J. J.; Morden, W. E.; Bycroft, B. W.; Green, B. N.

CS Dep. Chem., UMIST, Manchester, M60 1QD, UK

SO Int. J. Mass Spectrom. Ion Processes (1992), 122, 143-51

CODEN: IJMPDN; ISSN: 0168-1176

DT Journal

LA English

CC 10-1 (Microbial, Algal, and Fungal Biochemistry)

Section cross-reference(s): 9, 26

AB Tandem mass spectrometry has been shown to be a powerful technique for detg. the structures of biol. compds. This paper details the mass spectrometric methods employed to characterize the structural variations found within a mixt. of cyclic decapeptides, tyrothricin, produced by the bacterium Bacillus brevis.

ST Bacillus tyrothricin complex tandem mass spectrometry

IT Nomenclature, new natural products

(tryptocidin A)

IT Nomenclature, new natural products

(tryptocidin B)

IT Nomenclature, new natural products

(tryptocidin C)

IT Nomenclature, new natural products

(tryptocidin C1)

IT Nomenclature, new natural products

(tyrocidin A1)

IT Nomenclature, new natural products

(tyrocidin B1)

IT Nomenclature, new natural products

(tyrocidin C)

IT Bacillus brevis

(tyrothricin complex from, tandem mass spectrometry anal. of)

IT 865-28-1 1404-88-2, Tyrothricin 1481-70-5 3252-29-7
19659-42-8 19716-16-6 147316-73-2 147316-74-3 147316-75-4
147344-92-1

RL: BIOL (Biological study)

(from Bacillus brevis, tandem mass spectrometry anal. of)